

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with applicant's attorney Seunghee Park on 10/15/2009.

The application has been amended as follows:

Claims 4 and 5 are added into claim 1 and claims 4 and 5 are cancelled.

Claims 12 and 13 are added into claim 9, and claims 12 and 13 are cancelled.

Claim 6, line 1, "The electric energy storage device as claimed in claim 4" changes to The electric energy storage device as claimed in claim 1".

Claim 7, line 1, "The electric energy storage device as claimed in claim 4" changes to The electric energy storage device as claimed in claim 1".

Claim 14, line 1, "The method of charging and discharging of an electric energy storage device as claimed in claim 12" changes to "The method of charging and discharging of an electric energy storage device as claimed in claim 9".

Claim 15, line 1, "The method of charging and discharging of an electric energy storage device as claimed in claim 12" changes to "The method of charging and discharging of an electric energy storage device as claimed in claim 9".

Claim 1. An electric energy storage device comprising a capacitor and a secondary battery combined in series; and

an over-voltage preventing device connected to both end portions of the capacitor,

wherein an electric capacity of the secondary battery is about four (4) to 100 times of an electric capacity of the capacitor, and

wherein the over- voltage preventing device is an over-voltage preventing circuit comprising a voltage comparator for comparing a predetermined voltage and an applied voltage, a switch for flowing electricity when the applied voltage exceeds the predetermined voltage and a breeder resistor for discharging the capacitor when the switch flows the electricity.

Claim 9. A method of charging and discharging of an electric energy storage device comprising a capacitor and a secondary battery connected to the capacitor in series, and an over-voltage preventing device connected to both end portions of the capacitor, the method comprising:

charging the electric energy storage device to a sum of an operating voltage of the capacitor and a nominal voltage of the secondary battery; and

discharging the capacitor to 0V or less,

wherein an electric capacity of the secondary battery is about four (4) to 100 times of an electric capacity of the capacitor, and

wherein the over-voltage preventing device is an over-voltage preventing circuit including a voltage comparator for comparing a predetermined voltage and an applied voltage, a switch for flowing electricity when the applied voltage exceeds the predetermined voltage and a breeder resistor for discharging the capacitor when the switch flows the electricity.

Allowable Subject Matter

2. Claims 1, 3, 6-9, 11, 14-16 are allowed over prior art of record.

The following is an examiner's statement of reasons for allowance:

The prior art of record neither anticipates nor renders obvious the claimed subject matter of the instant application as a whole either taken alone or in combination, in particular, prior art of record does not teach:

An electric energy storage device comprising
an over-voltage preventing device connected to both end portions of the
capacitor,

wherein an electric capacity of the secondary battery is about four (4) to 100 times of an electric capacity of the capacitor, and

wherein the over- voltage preventing device is an over-voltage preventing circuit comprising a voltage comparator for comparing a predetermined voltage and an applied voltage, a switch for flowing electricity when the applied voltage exceeds the

predetermined voltage and a breeder resistor for discharging the capacitor when the switch flows the electricity as recited in claim 1, and

A method of charging and discharging of an electric energy storage device comprising an over-voltage preventing device connected to both end portions of the capacitor, the method comprising:

discharging the capacitor to 0V or less,

wherein an electric capacity of the secondary battery_ is about four (4) to 100 times of an electric capacity of the capacitor, and

wherein the over-voltage preventing device is an over-voltage preventing circuit including a voltage comparator for comparing a predetermined voltage and an applied voltage, a switch for flowing electricity when the applied voltage exceeds the predetermined voltage and a breeder resistor for discharging the capacitor when the switch flows the electricity as recited in claim 9.

Claims 3, 6-8, 11, 14-16 are also allowed as being directly or indirectly dependent of the allowed independent base claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANNY NGUYEN whose telephone number is (571)272-2054. The examiner can normally be reached on 8:00-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, BARNIE REXFORD can be reached on 571-272-7492. The fax phone

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Danny Nguyen/
Primary Examiner, Art Unit 2836